

WHAT IS CLAIMED IS:

1. An edible ink with a viscosity of about 2000 to about 16000 cp at 2	5 °C.
--	-------

- The edible ink of claim 1, further comprising at least one soluble or insoluble pigment, wherein the ink has a pigment density of about 0.1 g/l to about 0.25 g/l and an ink density of about 1.1 g/l to about 2.0 g/l.
 - 3. An edible ink comprising about 10% to about 20% by weight water, about 70% to about 80% by weight of at least one sweetener, about 5% to about 10% by weight of at least one emulsifier, about 1% to about 5% of a humectant, wherein the ink has a viscosity of about 2000 to about 3100 cp at 25 °C.
 - 4. The edible ink of claim 3, further comprising at least one soluble or insoluble pigment, wherein the ink has a pigment density of about 0.1 g/l to about 0.25 g/l and an ink density of about 1.1 g/l to about 2.0 g/l.
 - 5. The edible ink of claim 3, wherein the sweetener is selected from the group consisting of glucose, sorbitol, sucrose, and dextrose.
 - 6. The edible ink of claim 3, wherein the sweetener comprises about 18% to about 28% by weight glucose, about 18% to about 28% by weight sorbitol, about 18% to about 36% sucrose, and about 2% to about 6% by weight dextrose.
 - 7. The edible ink of claim 3, wherein the sweetener comprises about 23% by weight glucose, about 23% by weight sorbitol, about 27% by weight sucrose, and about 4% by weight dextrose.
 - 8. The edible ink of claim 3, wherein the emulsifier is selected from the group consisting of lecithin and polyoxyethylene sorbitan monostearate.
 - 9. The edible ink of claim 3, wherein the emulsifier comprises about 3% by weight of polyoxyethylene sorbitan monostearate and about 3% by weight of lecithin.
 - 10. The edible ink of claim 3, wherein the ink comprises about 2% by weight of the humectant.

Docket No.: 113 16001

1

1

2

1

2

1

2

1 11.	The edible ink of claim	10, wherein th	ne humectant	is glycerine.
-------	-------------------------	----------------	--------------	---------------

- 12. A printing process comprising applying the ink of claim 3 to a substrate.
- 1 13. An edible ink comprising about 70% to about 80% by weight of a barrier forming compound, about 1% to about 10% by weight of a drying agent, about 10% to about 20% by weight of a film former, about 1% to about 3% by weight of an emulsifier, about 1% to about 5% by weight water, about 1% by weight of a water repellant, wherein the ink has a viscosity of about 2000 to about 3100 cp at 25 °C.
- 1 14. The edible ink of claim 13, further comprising at least one soluble or insoluble pigment, wherein the ink has a pigment density of about 0.1 g/l to about 0.25 g/l and an ink density of about 1.1 g/l to about 2.0 g/l.
- 1 15. The edible ink of claim 13, wherein the barrier forming compound comprises 2 a shellac/glaze solution.
- 1 16. The edible ink of claim 13, wherein the ink comprises about 75% by weight of the barrier forming compound.
- 1 17. The edible ink of claim 13, wherein the drying agent comprises an alcohol selected from the group consisting of methyl alcohol, ethyl alcohol, isopropyl alcohol and butyl alcohol, and mixtures thereof.
 - 18. The edible ink of claim 13, wherein the drying agent comprises about 1.5% by weight of each of isopropyl, ethyl and butyl alcohols.
 - 19. The edible ink of claim 13, wherein the ink comprises about 15% by weight of the film former.
 - 20. The edible ink of claim 13, wherein the film former comprises about 5% by weight polyvinylpyrollidone and about 10% by weight hydroxypropylmethylcellulose.
- 1 21. The edible ink of claim 13, wherein the ink comprises about 1% to about 3% by weight of an emulsifier and/or hydrocolloid stabilizer.

16001 Docket No.: 113

3

4

5

repellant.

1	22.	The edible ink of claim 13, wherein the emulsifier is lecithin.				
1	23.	The edible ink of claim 21, wherein the hydrocolloid stabilizer is sodium				
2	alginate.					
1	24.	The edible ink of claim 13, wherein the ink comprises about 1% by weight of				
2	the water repellant.					
1	25.	The edible ink of claim 13, wherein the water repellant is				
2	dimethylpolysiloxane.					
1	26.	A printing process comprising applying the ink of claim 13 to a substrate.				
1	27.	A lithographic printing process for forming an image layer on a surface of an				
2	edible article, comprising:					
3	(a)	providing a master with an ink receptive layer thereon;				
4	(b)	contacting the ink receptive layer with an edible ink to form an ink layer				
5	thereon, wherein the edible ink has a viscosity of about 2000 to about 3100 cp at 25 °C;					
6	(c)	transferring the ink layer to a substrate to form an image layer thereon.				
1	28.	The process of claim 27, wherein the edible ink comprises about 10% to about				
2 .	20% by weight water, about 70% to about 80% by weight of at least one sweetener, about					
3	5% to about 10% by weight of at least one emulsifier, and about 1% to about 5% of a					
4	humectant.					
1	29.	The process of claim 27, wherein the edible ink further comprises at least one				
2	soluble or insoluble pigment, and wherein the ink has a pigment density of about 0.1 g/l to					
3	about 0.25 g/	l and an ink density of about 1.1 g/l to about 2.0 g/l .				
1	30.	The process of claim 27, wherein the edible ink comprises about 70% to about				
2	80% by weig	ht of a barrier forming compound, about 1% to about 10% by weight of a drying				

agent, about 10% to about 20% by weight of a film former, about 1% to about 3% by weight

of an emulsifier, about 1% to about 5% by weight water, and about 1% by weight of a water

1

2

1

1

2

3

1	31.	The process of claim 30, wherein the edible ink further comprises at least one
2	soluble or insc	sluble pigment, and wherein the ink has a pigment density of about 0.1 g/l to
3	about 0.25 g/l	and an ink density of about 1.1 g/l to about 2.0 g/l .

- 32. The process of claim 27, wherein the substrate is selected from the group consisting of wax coated paper, plastic coated paper and acetate paper.
- 1 33. The process of claim 32, wherein the plastic coated paper is a polypropylene coated paper.
- 1 34. The process of claim 27, wherein the substrate is selected from the group consisting of sugar fondant, wafer, rice paper, starch sheets, sugar sheets and icings.
- The process of claim 27, wherein step (c) comprises transferring the ink layer to a surface of a blanket cylinder, and transferring the ink layer from the blanket cylinder to the substrate to form an image layer thereon.
 - 36. The process of claim 35, wherein the blanket cylinder is a rubber roller.
- 37. A decorating kit comprising a substrate having printed thereon a substantially non-tacky layer of an edible ink, wherein the edible ink is applied to the substrate using a lithographic printing process.
 - 38. A lithographic printer comprising a master having an edible ink thereon, wherein the edible ink has a viscosity of about 2000 to about 3100 cp at 25 °C and a pigment density of about 0.1 g/l to about 0.25 g/l and an ink density of about 1.1 g/l to about 2.0 g/l.